

Application/Control Number: 09/763,397

Art Unit: 1645

### **Clean Copy of Claims**

1. A single recombinant protein comprising peptides from two or more stages in a life cycle of *Plasmodium falciparum* wherein each peptide comprises an antigenic epitope comprising the amino acid sequence as forth as SEQ ID NO: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25.
3. A recombinant protein comprising the amino acid sequence as set forth as SEQ ID NO: 2.
4. The protein of claim 1, further comprising a signal peptide, polyhistidine and T-cell helper epitope.
5. The protein of claim 1, wherein the stages are selected from sporozoite, liver, blood, and sexual stages of *Plasmodium falciparum* life cycle.
6. The protein of claim 5, comprising at least one antigenic epitope from each of the sporozoite, liver, blood and sexual stages of *Plasmodium falciparum* life cycle.
10. A protein composition comprising the recombinant protein of claim 1 in a pharmaceutically acceptable carrier.

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13. The protein of claim 1, wherein each antigenic epitope consists of the amino acid sequence as set forth as SEQ ID Nos: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25.